

WEST Search History

DATE: Wednesday, June 08, 2005

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<input type="checkbox"/>	L5	2002	3
<input type="checkbox"/>	L4	2003	8
<input type="checkbox"/>	L3	2001	0
<input type="checkbox"/>	L2	2000	0
<input type="checkbox"/>	L1	antrodia camphorata	26

END OF SEARCH HISTORY

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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FILE 'HOME' ENTERED AT 08:29:07 ON 08 JUN 2005

=> index bioscience
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

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COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.21 0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 08:29:19 ON 08 JUN 2005

75 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

=> s antrodia (w) camphorata and (pharmaceutical or active or medicine or drug)
4 FILE AGRICOLA
2 FILE BIOENG
17 FILE BIOSIS
4 FILE BIOTECHABS
4 FILE BIOTECHDS
1 FILE BIOTECHNO
5 FILE CABA
2 FILE CANCERLIT
17 FILE CAPLUS
23 FILES SEARCHED...
3 FILE DDFU
3 FILE DRUGU
15 FILE EMBASE
33 FILES SEARCHED...
6 FILE ESBIOBASE
7 FILE FROSTI
10 FILE IFIPAT
3 FILE LIFESCI
14 FILE MEDLINE
3 FILE PASCAL
55 FILES SEARCHED...
8 FILE SCISEARCH
19 FILE TOXCENTER

101 6977

10169174

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11  FILE USPATFULL
2  FILE USPAT2
7  FILE WPIDS
74 FILES SEARCHED...
7  FILE WPINDEX

24 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L1  QUE ANTRODIA (W) CAMPHORATA AND (PHARMACEUTICAL OR ACTIVE OR MEDICINE OR D
RUG)

=> s l1 and (polysaccharide or polysaccharides or active(w)isolate or
active(w)composition)
2  FILE AGRICOLA
1  FILE BIOENG
3  FILE BIOSIS
3  FILE BIOTECHABS
3  FILE BIOTECHDS
1  FILE BIOTECHNO
1  FILE CABA
1  FILE CANCERLIT
17 FILES SEARCHED...
6  FILE CAPLUS
2  FILE DDFU
29 FILES SEARCHED...
2  FILE DRUGU
3  FILE EMBASE
1  FILE ESBIOBASE
8  FILE IFIPAT
1  FILE LIFESCI
4  FILE MEDLINE
51 FILES SEARCHED...
1  FILE PASCAL
3  FILE SCISEARCH
4  FILE TOXCENTER
7  FILE USPATFULL
2  FILE USPAT2
70 FILES SEARCHED...
3  FILE WPIDS
3  FILE WPINDEX

23 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L2  QUE L1 AND (POLYSACCHARIDE OR POLYSACCHARIDES OR ACTIVE(W) ISOLATE OR ACTI
VE(W) COMPOSITION)
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=> dup rem
ENTER L# LIST OR (END):.

=> dup rem 13
PROCESSING COMPLETED FOR L3
L4 19 DUP REM L3 (38 DUPLICATES REMOVED)
ANSWERS '1-8' FROM FILE IFIPAT
ANSWER '9' FROM FILE USPATFULL
ANSWERS '10-14' FROM FILE CAPLUS
ANSWERS '15-16' FROM FILE MEDLINE
ANSWER '17' FROM FILE BIOTECHDS
ANSWER '18' FROM FILE SCISEARCH
ANSWER '19' FROM FILE WPIDS

=> d ti 1-19

L4 ANSWER 1 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 1
TI PROCESS FOR PRODUCING A CULTURE OF ANTRODIA CAMPHORATA
AND PRODUCT OBTAINED THEREBY

L4 ANSWER 2 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 2
TI PROCESS FOR PRODUCING A CULTURE OF ANTRODIA CAMPHORATA
AND PRODUCT OBTAINED THEREBY

L4 ANSWER 3 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 3
TI PROCESS FOR PRODUCING A CULTURE OF ANTRODIA CAMPHORATA
AND PRODUCT OBTAINED THEREBY

L4 ANSWER 4 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 7
TI PREPARATION AND COMPOSITIONS FOR ANTRODIA CAMPHORATA
MYCELIUM BIOLOGICALLY ACTIVE MATERIAL; PREPARING CULTURE OF
GENETICALLY ENGINEERED, DISEASE/PARASITE/TUMOR RESISTANT MUSHROOMS

L4 ANSWER 5 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 8
TI PROCESS FOR PRODUCING A CULTURE OF ANTRODIA CAMPHORATA
AND PRODUCT OBTAINED THEREBY; INOCULATING A MYCELIAL INOCULUM OF AN
ISOLATE OF ANTRODIA CAMPHORATA; SUBJECTING CULTURE
CULTIVATED TO FIRST STAGE OF AGITATION TO OBTAIN SECOND CULTURE
PROLIFERATION WITH MYCELIUM; AGITATION TO SUBJECT ISOLATE TO
PHYSIOLOGICAL STRESS

L4 ANSWER 6 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 9
TI METHOD FOR PROPAGATING FUNGI USING SOLID STATE FERMENTATION; PROPAGATION
OF PREFERENTIAL FUNGUS; OBTAIN NUTRIENT BROTH, INOCULATE WITH FUNGUS,
PROPAGATE, RECOVER FUNGUS

L4 ANSWER 7 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN
TI PROCESS FOR PRODUCING A CULTURE OF ANTRODIA CAMPHORATA
AND PRODUCT OBTAINED THEREBY; INOCULATING A MYCELIAL INOCULUM OF AN
ISOLATE OF ANTRODIA CAMPHORATA; SUBJECTING CULTURE
CULTIVATED TO FIRST STAGE OF AGITATION TO OBTAIN SECOND CULTURE
PROLIFERATION WITH MYCELIUM; AGITATION TO SUBJECT ISOLATE TO
PHYSIOLOGICAL STRESS

L4 ANSWER 8 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN
TI INCUBATION METHOD FOR OBTAINING SOLID CULTURE OF ZANG ZHI, SOLID CULTURE
OBTAINED THEREFROM, PROCESSED PRODUCTS AND USE THEREOF; INCUBATING
ANTRODIA CAMPHORATA (ZANG ZHI) TO PRODUCE A SOLID
CULTURE HAVING THE SAME PHARMACEUTICAL EFFICACY AND THE WILD
ONE DOES BY USE OF THE INOCULUMS OF SPAWN (CCRC35398); FOODS AND DRUGS
FOR LIVER PROBLEMS, ANTICARCINOGENIC AGENTS, ETC.

STN SEARCH

6/8/08

L4 ANSWER 9 OF 19 USPATFULL on STN DUPLICATE 10
 TI Incubation method for obtaining solid culture of Zang Zhi, solid culture obtained therefrom, processed products and use thereof

L4 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4
 TI Anti-hepatitis B virus polysaccharides obtained from **Antrodia camphorata**

L4 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5
 TI Antitumor effects of the partially purified polysaccharides from **Antrodia camphorata** and the mechanism of its action

L4 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 11
 TI Method for propagating fungi using solid state fermentation

L4 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 12
 TI Antioxidant Properties of **Antrodia camphorata** in Submerged Culture

L4 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Bioactive components obtained from **Antrodia** mycelia, and manufacture thereof

L4 ANSWER 15 OF 19 MEDLINE on STN DUPLICATE 6
 TI Anti-inflammatory activity of the extracts from mycelia of **Antrodia camphorata** cultured with water-soluble fractions from five different *Cinnamomum* species.

L4 ANSWER 16 OF 19 MEDLINE on STN DUPLICATE 13
 TI **Antrodia camphorata** polysaccharides exhibit anti-hepatitis B virus effects.

L4 ANSWER 17 OF 19 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
 TI Effect of pH on the production and molecular weight distribution of exopolysaccharide by **Antrodia camphorata** in batch cultures;
 polysaccharide production by fungus fermentation for potential use as a virucide against hepatitis B virus

L4 ANSWER 18 OF 19 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
 TI Induction of apoptosis by **Antrodia camphorata** in human premyelocytic leukemia HL-60 cells

L4 ANSWER 19 OF 19 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
 TI Polysaccharides extracted from the culture medium of the fungus **Antrodia camphorata** which grows on the *Cinnamomum kanehirae* tree are useful to improve immunity and give resistance to tumors and parasite infections.

=> d ti bib 1-19

L4 ANSWER 1 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 1
 TI PROCESS FOR PRODUCING A CULTURE OF **ANTRODIA CAMPHORATA** AND PRODUCT OBTAINED THEREBY
 AN 10584778 IFIPAT; IFIUDB; IFICDB
 TI PROCESS FOR PRODUCING A CULTURE OF **ANTRODIA CAMPHORATA** AND PRODUCT OBTAINED THEREBY
 INF Huang; Ren-Chang, Hua-Lian Hsien, TW
 Lin; Shie-Jea, Hsin-Chu City, TW
 Wang; Bor-Cheh, Hsin-Chu City, TW

IN Wu; Mei-Chiao, Hsin-Chu City, TW
Huang Ren-Chang (TW); Lin Shie-Jea (TW); Wang Bor-Cheh (TW); Wu Mei-Chiao (TW)
PAF Unassigned
PA Unassigned Or Assigned To Individual (68000)
AG FISH & RICHARDSON PC, 225 FRANKLIN ST, BOSTON, MA, 02110, US
PI US 2004092000 Al 20040513
AI US 2003-697784 20031030
RLI US 2000-566834 20000508 CONTINUATION-IN-PART 6391615
US 2002-113903 20020329 DIVISION PENDING
PRAI TW 2000-89102716 20000217
PI US 2004092000 20040513
US 6391615
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION

PARN This application is a continuation-in-part of U.S. Ser. No. 09/ 566,834 filed on May 8, 2000, disclosure of which is incorporated herein by reference.

CLMN 40

GI 9 Figure(s).

FIG. 1 is a diagram demonstrating the anti-tumor activity of the filtrates derived from *A. camphorata* cultures, where *A. camphorata* is cultivated under two different agitation conditions:

FIG. 2 is a diagram demonstrating the pH fluctuation in three *A. camphorata* cultures over the cultivation time;

FIG. 3 is a diagram demonstrating the anti-tumor activity of the filtrates derived from the *A. camphorata* cultures described in FIG. 2, where the *A. camphorata* is cultivated at pH values controlled within three distinct intervals;

FIG. 4 is a diagram demonstrating the anti-tumor activity of the filtrates derived from a scaled-up culture of *A. camphorata*;

FIG. 5 is a flow chart illustrating the purification scheme for an *A. camphorata* filtrate based on molecular weight;

FIG. 6 is a bar graph demonstrating the anti-tumor activity of the culture filtrates separated according to FIG. 5, in which the tested cell lines include MRC-5, HeLa, AGS, Hep G2, and MCF-7;

FIG. 7 is a bar graph comparing the anti-tumor activity of the fractions separated on Amberlite (reg) XAD-4 from a filtrate fraction containing fungal molecules having molecular weights of no more than 1 kDa, in which the tested cell lines include MRC-5, HeLa, AGS, Hep G2, and MCF-7;

FIG. 8 is a spectrum profile of the ethyl acetate eluate of FIG. 7 fractionated on a Lichrosorb (reg) RP-18 column; and

FIGS. 9-11 demonstrate the anti-tumor activity of the fractions separated in FIG. 8.

L4 ANSWER 2 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 2
TI PROCESS FOR PRODUCING A CULTURE OF *ANTRODIA CAMPHORATA*
AND PRODUCT OBTAINED THEREBY
AN 10584777 IFIPAT; IFIUDB; IFICDB
TI PROCESS FOR PRODUCING A CULTURE OF *ANTRODIA CAMPHORATA*
AND PRODUCT OBTAINED THEREBY
INF Huang; Ren-Chang, Hua-Lian Hsien, TW
Lin; Shie-Jea, Hsin-Chu City, TW
Wang; Bor-Cheh, Hsin-Chu City, TW
Wu; Mei-Chiao, Hsin-Chu City, TW
IN Huang Ren-Chang (TW); Lin Shie-Jea (TW); Wang Bor-Cheh (TW); Wu Mei-Chiao (TW)
PAF Unassigned
PA Unassigned Or Assigned To Individual (68000)
AG FISH & RICHARDSON PC, 225 FRANKLIN ST, BOSTON, MA, 02110, US
PI US 2004091999 Al 20040513
AI US 2003-697782 20031030

RLI US 2000-566834 20000508 CONTINUATION-IN-PART 6391615
US 2002-113903 20020329 DIVISION PENDING
PRAI TW 2000-89102716 20000217
FI US 2004091999 20040513
US 6391615
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
PARN This application is a continuation-in-part of U.S. Ser. No. 09/ 566,834
filed on May 8, 2000, disclosure of which is incorporated herein by
reference.
CLMN 40
GI 9 Figure(s).
FIG. 1 is a diagram demonstrating the anti-tumor activity of the filtrates
derived from A. camphorata cultures, where A. camphorata is cultivated
under two different agitation conditions;
FIG. 2 is a diagram demonstrating the pH fluctuation in three A.
camphorata cultures over the cultivation time;
FIG. 3 is a diagram demonstrating the anti-tumor activity of the filtrates
derived from the A. camphorata cultures described in FIG. 2, where the A.
camphorata is cultivated at pH values controlled within three distinct
intervals;
FIG. 4 is a diagram demonstrating the anti-tumor activity of the filtrates
derived from a scaled-up culture of A. camphorata;
FIG. 5 is a flow chart illustrating the purification scheme for an A.
camphorata filtrate based on molecular weight;
FIG. 6 is a bar graph demonstrating the anti-tumor activity of the culture
filtrates separated according to FIG. 5, in which the tested cell lines
include MRC-5, HeLa, AGS, Hep G2, and MCF-7;
FIG. 7 is a bar graph comparing the anti-tumor activity of the fractions
separated on Amberlite (reg) XAD-4 from a filtrate fraction containing
fungal molecules having molecular weights of no more than 1 kDa, in which
the tested cell lines include MRC-5, HeLa, AGS, Hep G2, and MCP-7;
FIG. 8 is a spectrum profile of the ethyl acetate eluate of FIG. 7
fractionated on a Lichrosorb (reg) RP-18 column; and
FIGS. 9-11 demonstrate the anti-tumor activity of the fractions separated
in FIG. 8.

L4 ANSWER 3 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 3
TI PROCESS FOR PRODUCING A CULTURE OF ANTRODIA CAMPHORATA
AND PRODUCT OBTAINED THEREBY
AN 10579782 IFIPAT; IFIUDB; IFICDB
TI PROCESS FOR PRODUCING A CULTURE OF ANTRODIA CAMPHORATA
AND PRODUCT OBTAINED THEREBY
INF Huang; Ren-Chang, Chi-An Hsiang, TW
Lin; Shie-Jea, Hsin-Chu City, TW
Wang; Bor-Cheh, Hsin-Chu City, TW
Wu; Mei-Chiao, Hsin-Chu City, TW
IN Huang Ren-Chang (TW); Lin Shie-Jea (TW); Wang Bor-Cheh (TW); Wu Mei-Chiao
(TW)
PAF Council of Agriculture, Executive Yuan
PA Council of Agriculture Executive Yuan TW
AG FISH & RICHARDSON PC, 225 FRANKLIN ST, BOSTON, MA, 02110, US
PI US 2004087004 A1 20040506
AI US 2003-697741 20031030
RLI US 2000-566834 20000508 CONTINUATION-IN-PART 6391615
US 2002-113903 20020329 DIVISION PENDING
PRAI TW 2000-89102716 20000217
FI US 2004087004 20040506
US 6391615
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION

PARN This application is a continuation-in-part of U.S. Ser. No. 09/ 566,834 filed on May 8, 2000, disclosure of which is incorporated herein by reference.

CLMN 40

GI 9 Figure(s).

FIG. 1 is a diagram demonstrating the anti-tumor activity of the filtrates derived from *A. camphorata* cultures, where *A. camphorata* is cultivated under two different agitation conditions;

FIG. 2 is a diagram demonstrating the pH fluctuation in three *A. camphorata* cultures over the cultivation time;

FIG. 3 is a diagram demonstrating the anti-tumor activity of the filtrates derived from the *A. camphorata* cultures described in FIG. 2, where the *A. camphorata* is cultivated at pH values controlled within three distinct intervals;

FIG. 4 is a diagram demonstrating the anti-tumor activity of the filtrates derived from a scaled-up culture of *A. camphorata*;

FIG. 5 is a flow chart illustrating the purification scheme for an *A. camphorata* filtrate based on molecular weight;

FIG. 6 is a bar graph demonstrating the anti-tumor activity of the culture filtrates separated according to FIG. 5, in which the tested cell lines include MRC-5, HeLa, AGS, Hep G2, and MCF-7;

FIG. 7 is a bar graph comparing the anti-tumor activity of the fractions separated on Amberlite (reg) XAD-4 from a filtrate fraction containing fungal molecules having molecular weights of no more than 1 kDa, in which the tested cell lines include MRC-5, HeLa, AGS, Hep G2, and MCF-7;

FIG. 8 is a spectrum profile of the ethyl acetate eluate of FIG. 7 fractionated on a Lichrosorb (reg) RP-18 column; and

FIGS. 9-11 demonstrate the anti-tumor activity of the fractions separated in FIG. 8.

L4 ANSWER 4 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 7

TI PREPARATION AND COMPOSITIONS FOR ANTRODIA CAMPHORATA
MYCELIUM BIOLOGICALLY ACTIVE MATERIAL; PREPARING CULTURE OF
GENETICALLY ENGINEERED, DISEASE/PARASITE/TUMOR RESISTANT MUSHROOMS

AN 10404095 IFIPAT; IFIUDB; IFICDB

TI PREPARATION AND COMPOSITIONS FOR ANTRODIA CAMPHORATA
MYCELIUM BIOLOGICALLY ACTIVE MATERIAL; PREPARING CULTURE OF
GENETICALLY ENGINEERED, DISEASE/PARASITE/TUMOR RESISTANT MUSHROOMS

INF Chen; Chin-Nung, Taoyuan City, TW
Chen; Jinn-Chu, Hsinchu City, TW

Sheu; Sen-Je, Taiping City, TW

IN Chen Chin-Nung (TW); Chen Jinn-Chu (TW); Sheu Sen-Je (TW)

PAF Unassigned

PA Unassigned Or Assigned To Individual (68000)

AG ROSENBERG, KLEIN & LEE, 3458 ELLICOTT CENTER DRIVE-SUITE 101, ELLICOTT
CITY, MD, 21043, US

PI US 2003148517 A1 20030807

AI US 2001-26791 20011227

FI US 2003148517 20030807

DT Utility; Patent Application - First Publication

PS CHEMICAL

APPLICATION

OS CA 139:159927

CLMN 12

GI 11 Figure(s).

FIG. 1 shows, according to CCRC 35398 culture and process of producing biologically active material from *Antrodia camphorata* mycelium in the present invention, the variations of the yields of *Antrodia camphorata* mycelium and the obtained biologically active material, i.e. polysaccharides, in dry weight percentage with the culturing time;

FIG. 2 shows, according to CCRC 35396 culture and process of producing

biologically active material from *Antrodia camphorata* mycelium in the present invention, the variations of the yields of *Antrodia camphorata* mycelium and the obtained biologically active material, i.e. polysaccharides, in dry weight percentage with the culturing time; FIG. 3 is the protein standard curve for gel filtration chromatography; FIG. 4 is the chromatographic curve for molecular weight determination for polysaccharides contained in *Antrodia camphorata* mycelium; FIG. 5 is the chromatographic curve for molecular weight determination for Sepharose 6B polysaccharides extracted from *Antrodia camphorata* mycelium by water; FIG. 6 is the chromatographic curve for molecular weight determination for Sepharose 6B polysaccharides extracted from *Antrodia camphorata* mycelium by bases; FIG. 7 is the 1H-NMR spectrum for Sepharose 6B polysaccharides extracted from *Antrodia camphorata* mycelium by water; FIG. 8 is the 13C-NMR spectrum for Sepharose 6B polysaccharides extracted from *Antrodia camphorata* mycelium by water; FIG. 9 is the IR spectrum for polysaccharides from *Antrodia camphorata* mycelium; FIG. 10 is the X-ray diffraction patterns for polysaccharides from *Antrodia camphorata* mycelium; FIG. 11 shows the variation of TNF-alpha concentrations from macrophage and analyzed by ELISA with different polysaccharide preparations when water-extracted material and base-extracted material from the *Antrodia camphorata* mycelium in the present invention and the fermentation solution undergo macrophage activation tests. FIG. 12 shows the results of immune responses (cytokines IL-2, TNF-alpha and INF-gamma) from C57BL/6 and BALB/c mice fed with different dosages of *Antrodia camphorata* for different number of weeks.

L4 ANSWER 5 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 8
TI PROCESS FOR PRODUCING A CULTURE OF *ANTRODIA CAMPHORATA*
AND PRODUCT OBTAINED THEREBY; INOCULATING A MYCELIAL INOCULUM OF AN
ISOLATE OF *ANTRODIA CAMPHORATA*; SUBJECTING CULTURE
CULTIVATED TO FIRST STAGE OF AGITATION TO OBTAIN SECOND CULTURE
PROLIFERATION WITH MYCELIUM; AGITATION TO SUBJECT ISOLATE TO
PHYSIOLOGICAL STRESS
AN 10342494 IFIPAT; IFIUDB; IFICDB
TI PROCESS FOR PRODUCING A CULTURE OF *ANTRODIA CAMPHORATA*
AND PRODUCT OBTAINED THEREBY; INOCULATING A MYCELIAL INOCULUM OF AN
ISOLATE OF *ANTRODIA CAMPHORATA*; SUBJECTING CULTURE
CULTIVATED TO FIRST STAGE OF AGITATION TO OBTAIN SECOND CULTURE
PROLIFERATION WITH MYCELIUM; AGITATION TO SUBJECT ISOLATE TO
PHYSIOLOGICAL STRESS
INF Huang; Ren-Chang, Hua-Lian Hsien, TW
Lin; Shie-Jea, Hsin-Chu City, TW
Wang; Bor-Cheh, Hsin-Chu City, TW
Wu; Mei-Chiao, Hsin-Chu City, TW
IN Huang Ren-Chang (TW); Lin Shie-Jea (TW); Wang Bor-Cheh (TW); Wu Mei-Chiao (TW)
PAF Unassigned
PA Unassigned Or Assigned To Individual (68000)
AG Y. ROCKY TSAO Fish & Richardson P.C., 225 Franklin Street, Boston, MA,
02110-2804, US
PI US 2003086908 A1 20030508
AI US 2002-113903 20020329
RLI US 2000-566834 20000508 CONTINUATION-IN-PART 6391615
PRAI TW 2000-89102716 20000217
FI US 2003086908 20030508

US 6391615
DT Utility; Patent Application - First Publication
PS CHEMICAL
APPLICATION
PARN This application is a continuation-in-part of U.S. Ser. No. 09/ 566,834
filed on May 8, 2000, disclosure of which is incorporated herein by
reference.
CLMN 40
GI 9 Figure(s).
FIG. 1 is a diagram demonstrating the anti-tumor activity of the filtrates
derived from *A. camphorata* cultures, where *A. camphorata* is cultivated
under two different agitation conditions;
FIG. 2 is a diagram demonstrating the pH fluctuation in three *A.*
camphorata cultures over the cultivation time;
FIG. 3 is a diagram demonstrating the anti-tumor activity of the filtrates
derived from the *A. camphorata* cultures described in FIG. 2, where the *A.*
camphorata is cultivated at pH values controlled within three distinct
intervals;
FIG. 4 is a diagram demonstrating the anti-tumor activity of the filtrates
derived from a scaled-up culture of *A. camphorata*;
FIG. 5 is a flow chart illustrating the purification scheme for an *A.*
camphorata filtrate based on molecular weight;
FIG. 6 is a bar graph demonstrating the anti-tumor activity of the culture
filtrates separated according to FIG. 5, in which the tested cell lines
include MRC-5, HeLa, AGS, Hep G2, and MCF7;.
FIG. 7 is a bar graph comparing the anti-tumor activity of the fractions
separated on Amberlite registered XAD4 from a filtrate fraction
containing fungal molecules having molecular weights of no more than 1
kDa, in which the tested cell lines include MRC-5, HeLa, AGS, Hep G2, and
MCF-7;
FIG. 8 is a spectrum profile of the ethyl acetate eluate of FIG. 7
fractionated on a Lichrosorb registered RP-18 column; and
FIGS. 9-11 demonstrate the anti-tumor activity of the fractions separated
in FIG. 8.

L4 ANSWER 6 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN DUPLICATE 9
TI METHOD FOR PROPAGATING FUNGI USING SOLID STATE FERMENTATION; PROPAGATION
OF PREFERENTIAL FUNGUS; OBTAIN NUTRIENT BROTH, INOCULATE WITH FUNGUS,
PROPAGATE, RECOVER FUNGUS
AN 03872349 IFIPAT; IFIUDB; IFICDB
TI METHOD FOR PROPAGATING FUNGI USING SOLID STATE FERMENTATION; PROPAGATION
OF PREFERENTIAL FUNGUS; OBTAIN NUTRIENT BROTH, INOCULATE WITH FUNGUS,
PROPAGATE, RECOVER FUNGUS
.INF Li; Pei-Jung, Miaoli Hsien, TW
Shen; Chung-Guang, Taipei, TW
IN Li Pei-Jung (TW); Shen Chung-Guang (TW)
PAF Sun Ten Pharmaceutical Co., Ltd., Taipei, TW
PA Sun Ten Pharmaceutical Co Ltd TW (65255)
EXNAM Naff, David M
AG Chao Fei-Fei
Venable, Baetjer, Howard & Civiletti
PI US 6558943 B1 20030506
AI US 2000-655435 20000905
XPD 5 Sep 2020
FI US 6558943 20030506
DT Utility
PS CHEMICAL
GRANTED
NTE Subject to any Disclaimer, the term of this patent is extended or
adjusted under 35 USC 154(b) by 2 days.
MRN 011067 MFN: 0020
013662 0312
013664 0008

CLMN 30
GI 8 Drawing Sheet(s), 10 Figure(s).
FIG. 1 is a flow-chart which shows stepwise preparation of fungal culture media and propagation of fungus. The left column shows how wild, healthy or frozen fungus mycelia are chosen. The central column contains three incubation steps, which are (1) a solid culture (such as a slant culture), (2) a liquid culture, and (3) a solid state fermentation (SFF) culture. The right column shows how a SFF culture is prepared.
FIG. 2 is a time course (days) of *Cordyceps Sinensis* in an SFF culture which shows the correlation between the total dried weight (gm) of *Cordyceps Sinensis* and the days of incubation in the SFF medium (FIG. 2a) and the correlation between the amount (μg) of H1A in *Cordyceps Sinensis* and the days of incubation in the SFF medium (FIG. 2b).
FIG. 3 shows the detection of H1A by reverse phase high performance liquid chromatography (RP-HPLC) at 280 nm. FIG. 3a is a RP-HPLC chromatogram showing the retention time for H1A. Purified H1A was a gift from Dr. Ching-Yuang Lin of U.S. Pat. No. 5,582,828. The chromatogram indicates that H1A could be further subdivided into 4 compounds (i.e., H1A-1, H1A-2, H1A-3, and H1A-4) with retention time spanned between 32 and 54 minutes (H1A-1:32.5 minutes; H1A-2:52.5 minutes; H1A-3:53.5 minutes; H1A-4:34 minutes). FIGS. 3b-e show the spectrum of H1A1 (FIG. 3b), H1A-2 (FIG. 3c), H1A-3 (FIG. 3d), and H1A-4 (FIG. 3e). Only H1A-1 and H1A-3 show an absorbance peak at 277.7 nm and 274.1 nm, respectively.
FIG. 4 shows HPLC analysis of H1A/ergosterol and nucleosides from wide type *Cordyceps sinensis*. H1A and ergosterol were separated and analyzed by RP-HPLC at 280 nm according to Lin U. S. Pat. No. 5,582,828. Nucleosides (i.e., uracil, uridine, guanosine, adenosine) were separated and analyzed by HPLC at 260 nm as described in Example 2 (infra). The chromatogram of H1A/ergosterol is shown in FIG. 4a. The chromatogram of nucleosides is shown in FIG. 4b.

L4 ANSWER 7 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN
TI PROCESS FOR PRODUCING A CULTURE OF *ANTRODIA CAMPHORATA*
AND PRODUCT OBTAINED THEREBY; INOCULATING A MYCELIAL INOCULUM OF AN
ISOLATE OF *ANTRODIA CAMPHORATA*; SUBJECTING CULTURE
CULTIVATED TO FIRST STAGE OF AGITATION TO OBTAIN SECOND CULTURE
PROLIFERATION WITH MYCELIUM; AGITATION TO SUBJECT ISOLATE TO
PHYSIOLOGICAL STRESS
AN 04102161 IFIPAT; IFIUDB; IFICDB
TI PROCESS FOR PRODUCING A CULTURE OF *ANTRODIA CAMPHORATA*
AND PRODUCT OBTAINED THEREBY; INOCULATING A MYCELIAL INOCULUM OF AN
ISOLATE OF *ANTRODIA CAMPHORATA*; SUBJECTING CULTURE
CULTIVATED TO FIRST STAGE OF AGITATION TO OBTAIN SECOND CULTURE
PROLIFERATION WITH MYCELIUM; AGITATION TO SUBJECT ISOLATE TO
PHYSIOLOGICAL STRESS
INF Huang; Ren-Chang, Hua-Lian Hsien, TW
Lin; Shie-Jea, Hsin-Chu, TW
Wang; Bor-Cheh, Hsin-Chu, TW
Wu; Mei-Chiao, Hsin-Chu, TW
IN Huang Ren-Chang (TW); Lin Shie-Jea (TW); Wang Bor-Cheh (TW); Wu Mei-Chiao (TW)
PAF Council of Agriculture, Executive Yuan, Taipei, TW
PA Council of Agriculture TW (49871)
EXNAM Lilling, Herbert J
AG Fish & Richardson P.C.
PI US 6767543 B2 20040727
US 2003086908 A1 20030508
AI US 2002-113903 20020329
XPD 8 May 2020
RLI US 2000-566834 20000508 CONTINUATION-IN-PART 6391615
PRAI TW 2000-89102716 20000217
FI US 6767543 20040727
US 6391615

DT Utility; Granted Patent - Utility, with Pre-Grant Publication
FS CHEMICAL
GRANTED
PARN This application is a continuation-in-part of U.S. Ser. No. 09/ 566,834 filed on May 8, 2000, now U.S. Pat. No. 6,391,615, disclosure of which is incorporated herein by reference.
NTE INDEXED FROM APPLICATION
CLMN 21
GI 6 Drawing Sheet(s), 11 Figure(s).
FIG. 1 is a diagram demonstrating the anti-tumor activity of the filtrates derived from *A. camphorata* cultures, where *A. camphorata* is cultivated under two different agitation conditions;
FIG. 2 is a diagram demonstrating the pH fluctuation in three *A. camphorata* cultures over the cultivation time;
FIG. 3 is a diagram demonstrating the anti-tumor activity of the filtrates derived from the *A. camphorata* cultures described in FIG. 2, where the *A. camphorata* is cultivated at pH values controlled within three distinct intervals;
FIG. 4 is a diagram demonstrating the anti-tumor activity of the filtrates derived from a scaled-up culture of *A. camphorata*;
FIG. 5 is a flow chart illustrating the purification scheme for an *A. camphorata* filtrate based on molecular weight;
FIG. 6 is a bar graph demonstrating the anti-tumor activity of the culture filtrates separated according to FIG. 5, in which the tested cell lines include MRC-5, HeLa, AGS, Hep G2, and MCF-7;
FIG. 7 is a bar graph comparing the anti-tumor activity of the fractions separated on Amberlite (reg) XAD4 from a filtrate fraction containing fungal molecules having molecular weights of no more than 1 kDa, in which the tested cell lines include MRC-5, HeLa, AGS, Hep G2, and MCF-7;
FIG. 8 is a spectrum profile of the ethyl acetate eluate of FIG. 7 fractionated on a Lichrosorb (reg) RP-18 column; and
FIGS. 9-11 demonstrate the anti-tumor activity of the fractions separated in FIG. 8.
L4 ANSWER 8 OF 19 IFIPAT COPYRIGHT 2005 IFI on STN
TI INCUBATION METHOD FOR OBTAINING SOLID CULTURE OF ZANG ZHI, SOLID CULTURE OBTAINED THEREFROM, PROCESSED PRODUCTS AND USE THEREOF; INCUBATING ANTRODIA CAMPHORATA (ZANG ZHI) TO PRODUCE A SOLID CULTURE HAVING THE SAME PHARMACEUTICAL EFFICACY AND THE WILD ONE DOES BY USE OF THE INOCULUMS OF SPAWN (CCRC35398); FOODS AND DRUGS FOR LIVER PROBLEMS, ANTICARCINOGENIC AGENTS, ETC.
AN 04071957 IFIPAT; IFIUDB; IFICDB
TI INCUBATION METHOD FOR OBTAINING SOLID CULTURE OF ZANG ZHI, SOLID CULTURE OBTAINED THEREFROM, PROCESSED PRODUCTS AND USE THEREOF; INCUBATING ANTRODIA CAMPHORATA (ZANG ZHI) TO PRODUCE A SOLID CULTURE HAVING THE SAME PHARMACEUTICAL EFFICACY AND THE WILD ONE DOES BY USE OF THE INOCULUMS OF SPAWN (CCRC35398); FOODS AND DRUGS FOR LIVER PROBLEMS, ANTICARCINOGENIC AGENTS, ETC.
INF Lan; Ming-Huang, 7F, No. 9, Lane 191, Sec. 2, Di-Hua St., Taipei, TW
Wu; Li-Yu, 7F, No. 9, Lane 191, Sec. 2, Di-Hua St., Taipei, TW
IN Lan Ming-Huang (TW); Wu Li-Yu (TW)
PAF Unassigned
PA Unassigned Or Assigned To Individual (68000)
EXNAM Tate, Christopher R
EXNAM Srivastava, Kailash C
AG Ladas & Parry, US
PI US 6740517 B2 20040525
US 2003138408 A1 20030724
AI US 2001-23362 20011214
XPD 14 Dec 2021
FI US 6740517 20040525
DT Utility; Granted Patent - Utility, with Pre-Grant Publication
FS CHEMICAL

GRANTED

NTE INDEXED FROM APPLICATION

CLMN 4

GI 7 Drawing Sheet(s), 8 Figure(s).

FIGS. 1a-c illustrate comparative analysis of the HPLC of constituents of Zang Zhi, including (a) the fruiting body of cultured Zang Zhi according to the invention, (b) the liquid culture of Zang Zhi and (c) the fruiting body of wild Zang Zhi.

FIG. 2 illustrates the use of ferrous ions to stimulate the homogenization of mouse brain to cause the free radical peroxidative reaction of lipid, which will result in increasing of the TBARS (peroxidative constituents of lipid). Comparing the triple fold with the eight fold of concentrated extract of Zang Zhi fruiting body cultured according to the invention, we note that the increased inhibition of the peroxidative reaction will vary with the increase of the concentration, that is shown by the percentage of inhibition of per oxidative reaction (n=3).

FIG. 3 shows the effect of different concentrations of extract of Zang Zhi on the active change of GTP for measurement of liver function.

represents the statistical difference between the normal group and the injury group ($P<0.01$); *represents the statistical difference between the feed group and the injury group ($P<0.01$). Value is represented by average+standard error.

FIG. 4 shows the effect of different concentrations of Zang Zhi extract on the active change of GOT for the biochemical measurement of liver function. # represents the statistical difference between a normal group and an injury group ($P<0.01$); *represents the statistical difference between the feed group and the injury group. ($P<0.01$). Value is represented by average+standard error.

FIG. 5 shows the effect of an extract of Zang Zhi powder on the growth of bowel cancer cell (COLO 320 HSR).

L4 ANSWER 9 OF 19 USPATFULL on STN DUPLICATE 10

TI Incubation method for obtaining solid culture of Zang Zhi, solid culture obtained therefrom, processed products and use thereof

AN 2003:200425 USPATFULL

TI Incubation method for obtaining solid culture of Zang Zhi, solid culture obtained therefrom, processed products and use thereof

IN Lan, Ming-Huang, Taipei, TAIWAN, PROVINCE OF CHINA
Wu, Li-YU, Taipei, TAIWAN, PROVINCE OF CHINA

PI US 2003138408 A1 20030724

US 6740517 B2 20040525

AI US 2001-23362 A1 20011214 (10)

DT Utility

FS APPLICATION

LREP LARIVIERE, GRUBMAN & PAYNE, LLP, 1 LOWER RAGSDALE, BLDG. 1, SUITE 130,
P.O. BOX 3140, MONTEREY, CA, 93942

CLMN Number of Claims: 49

ECL Exemplary Claim: 1

DRWN 7 Drawing Page(s)

LN.CNT 1106

L4 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4

TI Anti-hepatitis B virus polysaccharides obtained from

Antrodia camphorata

AN 2004:249893 CAPLUS

DN 140:276148

TI Anti-hepatitis B virus polysaccharides obtained from

Antrodia camphorata

IN Chen, Chieh-pu; Lu, Mei-kuang; Hwang, Jui-ling; Chang, Tong-chu; Chen, Chi-ting; Wang, Shih-jen

PA Tai-Tsung Biotechnology Co., Ltd., Taiwan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent
LA Japanese
PAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004091780	A2	20040325	JP 2003-291018	20030811
PRAI	TW 2002-91120217	A	20020830		

L4 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5
TI Antitumor effects of the partially purified polysaccharides from
Antrodia camphorata and the mechanism of its action
AN 2004:974999 CAPLUS
DN 142:16423
TI Antitumor effects of the partially purified polysaccharides from
Antrodia camphorata and the mechanism of its action
AU Liu, Jun-Jen; Huang, Tien-Shang; Hsu, Ming-Ling; Chen, Chin-Chu; Lin,
Wen-Shin; Lu, Fung-Jou; Chang, Wen-Huei
CS Graduate Institute of Biochemistry and Molecular Biology, College of
Medicine, National Taiwan University, Taipei, Taiwan
SO Toxicology and Applied Pharmacology (2004), 201(2), 186-193
CODEN: TXAPAA; ISSN: 0041-008X
PB Elsevier
DT Journal
LA English
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 11
TI Method for propagating fungi using solid state fermentation
AN 2002:185281 CAPLUS
DN 136:215525
TI Method for propagating fungi using solid state fermentation
IN Li, Pei-Jung; Shen, Chung-Guang
PA Globoasia LLC, USA
SO PCT Int. Appl., 38 pp.
CODEN: PIXXD2

DT Patent
LA English
PAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002020727	A2	20020314	WO 2001-US17328	20010529
	WO 2002020727	A3	20030116		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG US 6558943 B1 20030506 US 2000-655435 20000905				
	AU 2001065120	A5	20020322	AU 2001-65120	20010529
PRAI	US 2000-655435	A	20000905		
	WO 2001-US17328	W	20010529		

L4 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 12
TI Antioxidant Properties of *Antrodia camphorata* in
Submerged Culture
AN 2002:312269 CAPLUS
DN 137:62465
TI Antioxidant Properties of *Antrodia camphorata* in

Submerged Culture
AU Song, Tuzz-Ying; Yen, Gow-Chin
CS Department of Food Science, National Chung Hsing University, Taichung, 40227, Taiwan
SO Journal of Agricultural and Food Chemistry (2002), 50(11), 3322-3327
CODEN: JAFCAU; ISSN: 0021-8561
PB American Chemical Society
DT Journal
LA English
RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
TI Bioactive components obtained from *Antrodia* mycelia, and manufacture thereof
AN 2003:214694 CAPLUS
DN 138:243244
TI Bioactive components obtained from *Antrodia* mycelia, and manufacture thereof
IN Chen, Chin-Chu; Chen, Hsien-Nung; Hsiu, Sheng-Chieh
PA Putaowang Enterprise Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
PAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2003081863	A2	20030319	JP 2001-278805	20010913
PRAI JP 2001-278805		20010913		

L4 ANSWER 15 OF 19 MEDLINE on STN DUPLICATE 6
TI Anti-inflammatory activity of the extracts from mycelia of *Antrodia camphorata* cultured with water-soluble fractions from five different *Cinnamomum* species.
AN 2004068218 MEDLINE
DN PubMed ID: 14769478
TI Anti-inflammatory activity of the extracts from mycelia of *Antrodia camphorata* cultured with water-soluble fractions from five different *Cinnamomum* species.
AU Shen Yuh-Chiang; Chou Cheng-Jen; Wang Yea-Hwey; Chen Chieh-Fu; Chou Yueh-Ching; Lu Mei-Kuang
CS National Research Institute of Chinese Medicine, Room 739, 155-1, Section 2, Li-Nong Street, Pei-tou District (112), Taipei, Taiwan, ROC.
SO FEMS microbiology letters, (2004 Feb 9) 231 (1) 137-43.
Journal code: 7705721. ISSN: 0378-1097.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200406
ED Entered STN: 20040211
Last Updated on STN: 20040615
Entered Medline: 20040614

L4 ANSWER 16 OF 19 MEDLINE on STN DUPLICATE 13
TI *Antrodia camphorata* polysaccharides exhibit anti-hepatitis B virus effects.
AN 2002278774 MEDLINE
DN PubMed ID: 12007655
TI *Antrodia camphorata* polysaccharides exhibit anti-hepatitis B virus effects.
AU Lee I-Hung; Huang Ray-Ling; Chen Chi-Ting; Chen Hsiao-Chuan; Hsu Wen-Chi;

Lu Mei-Kuang
CS China Medical College, 91 Hsueh-Shih Road, Taichung 40421, Taiwan.
SO FEMS microbiology letters, (2002 Mar 19) 209 (1) 63-7.
Journal code: 7705721. ISSN: 0378-1097.

CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200207
ED Entered STN: 20020522
Last Updated on STN: 20020727
Entered Medline: 20020726

L4 ANSWER 17 OF 19 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
TI Effect of pH on the production and molecular weight distribution of
exopolysaccharide by *Antrodia camphorata* in batch
cultures;
 polysaccharide production by fungus fermentation for
 potential use as a virucide against hepatitis B virus
AN 2004-16520 BIOTECHDS
TI Effect of pH on the production and molecular weight distribution of
exopolysaccharide by *Antrodia camphorata* in batch
cultures;
 polysaccharide production by fungus fermentation for
 potential use as a virucide against hepatitis B virus
AU SHU CH; LUNG MY
CS Natl Cent Univ
LO Shu CH, Natl Cent Univ, Dept Chem and Mat Engn, Chungli 320, Taoyuan,
Taiwan
SO PROCESS BIOCHEMISTRY; (2004) 39, 8, 931-937 ISSN: 0032-9592
DT Journal
LA English

L4 ANSWER 18 OF 19 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on
STN
TI Induction of apoptosis by *Antrodia camphorata* in human
premyelocytic leukemia HL-60 cells
AN 2004:706863 SCISEARCH
GA The Genuine Article (R) Number: 842SS
TI Induction of apoptosis by *Antrodia camphorata* in human
premyelocytic leukemia HL-60 cells
AU Hseu Y C; Yang H L (Reprint); Lai Y C; Lin J G; Chen G W; Chang Y H
CS China Med Univ, Inst Nutr, 91 Hsueh Shih Rd, Taichung 40421, Taiwan
(Reprint); China Med Univ, Inst Nutr, Taichung 40421, Taiwan; Chungtai
Inst Hlth Sci & Technol, Dept Food Sci, Taichung, Taiwan; China Med Univ, Inst
Chinese Med Sci, Taichung 40421, Taiwan; China Med Univ, Inst
Integrated Chinese & Western Med, Taichung 40421, Taiwan
CYA Taiwan
SO NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL, (JUL-AUG 2004) Vol. 48, No.
2, pp. 189-197.
Publisher: LAWRENCE ERLBAUM ASSOC INC, 10 INDUSTRIAL AVE, MAHWAH, NJ
07430-2262 USA.
ISSN: 0163-5581.
DT Article; Journal
LA English
REC Reference Count: 39
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L4 ANSWER 19 OF 19 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
TI Polysaccharides extracted from the culture medium of the fungus
Antrodia camphorata which grows on the *Cinnamomum*
kanehirae tree are useful to improve immunity and give resistance to
tumors and parasite infections.

AN 2002-628744 [68] WPIDS
DNC C2003-248039
TI Polysaccharides extracted from the culture medium of the fungus
Antridia camphorata which grows on the Cinnamomum
kanehiraе tree are useful to improve immunity and give resistance to
tumors and parasite infections.
DC B04
IN CHEN, J; CHEN, Q; XU, S; CHEN, C; SHEU, S
PA (PUTA-N) PUTAOWANG ENTERPRISE CO LTD; (CHEN-I) CHEN C; (CHEN-I) CHEN J;
(SHEU-I) SHEU S
CYC 3
PI CN 1352990 A 20020612 (200268)* 22
JP 2003081863 A 20030319 (200342)† 16
US 2003148517 A1 20030807 (200382)B 22
ADT CN 1352990 A CN 2001-115869 20010511; JP 2003081863 A JP 2001-278805
20010913; US 2003148517 A1 US 2001-26791 20011227